DOCUMENT RESUME

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INSTITUTION Northwest Territories Dept. of Education, Yellowknife. Programs and Evaluation Branch.

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NOTE 60p.; For related documents, see RC 013 920-927. Dr. I.R. Brooks is the developer of the test, originally known as the Achievement Test of Indian Children (ATC).

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ABSTRACT

The SCOPE Mathematics Achievement Test booklet for grade 4 presents 11 mathematical concepts with instructions for students to take the test with little or no teacher direction. Testing items are: writing number words to 100; giving the place value of any digit and using this to write in expanded form; finding a numeral between two given numerals from 0 to 10,000; adding and subtracting four-digit numbers; multiplying by multiples of 10, 100, and 1,000; multiplying up to a four-digit factor by a two-digit factor; dividing up to a three-digit dividend by a one-digit divisor; dividing multiples of 10 by 10; rounding off a six-digit number; and reading, writing, and translating Roman numerals. Other items tested are applying distributive property to multiplication; counting, adding, subtracting, and multiplying money; reading and writing decimals to 100ths; adding and subtracting decimals to 100ths; relating 1/10's and 1/100's to decimals; collecting data, constructing, and interpreting bar graphs, pictographs, and line graphs by using a one-to-one scale and a one-to-many scale; estimating and measuring standard and non-standard units; telling time to the minute; recognizing cube, cone, sphere, cylinder, pyramid, rectangular prism, triangular prism; locating angles, parallel lines, line segments, and right angles; and recognizing congruent plane shapes. (ERB)

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# Scope

## Standardized Curriculum - Oriented Pupil Evaluation

MATHEMATICS

[1981]

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Test Book

# Grade Four

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Northwest Territories Education

AC013925

*1.3 Writes number words to one hundred.*

***Look at this number. What is the word for this number? The word is "ten." Write the word "ten" beside P1 on page 11 of your answer book.***

Example

10 = ten

***Look at these numbers. Write the word for each of these numbers on page 11 of your answer book.***

1

25

2

36

3

48

4

51

5

79

6

85

7

61

*1.4 Gives the place value of any digit in a 4 digit numeral (and uses this to write in expanded form).*

***Look at this number. What does 3 stand for? It stands for the number of "hundreds." Write the word "hundreds" beside P2 on page 11 of your answer book.***

***Look at these questions. Write the number of thousands, hundreds, tens or ones in each of these questions. Write your answers on page 11 of your answer book.***

Example

In the number 1350, the 3 stands for 3 hundreds.

8

In the number 1 252 the 1 stands for 1 _____.

9

In the number 8 274 the 7 stands for 7 _____.

10

In the number 9 203 the 3 stands for 3 _____.

11

In the number 2 638 the 6 stands for
6 _____.

*Now write the number of thousandths, hundredths or tenths in each of these questions.*

12

In the number 851.2 the 2 stands for
2_____.

13

In the number 7.693 the 3 stands for
3_____.

14

In the number 2.861 the 6 stands for
6 _____.

*1.5a Finds a numeral between two given numerals from 0 to 10 000.*

*Look at these numbers. Which numbers are missing? 691, 692 and 694 are missing. Write these numbers beside P3 on page 11 of your answer book.*

Example

690, _____, _____, 693, _____, 695
690, 691, 692, 693, 694, 695

*Look at these questions. Which numbers are missing from each question? Write your answers on page 11 of your answer book.*

15 999, _____, 1 001, _____, 1 003, _____, 1 005

16 1 109, _____, _____, 1 112, _____, 1 114

17 2 319, _____, 2 321, _____, 2 323, _____

18

7 633, ____, 7 635, ____, ____, 7 638

19

5 603, ____, 5 605, ____, 5 607, ____

20

9 659, ____, 9 661, ____, ____, 9 664

21

9 995, ____, 9 997, ____, 9 999, ____

*1.5b Uses appropriate symbols; < , =, >*

*Look at these numbers. Which of these symbols ( < , =, > ) goes in the circle?*
*The symbol < does.*
*Draw the symbol < in the circle beside P4 on page 11 of your answer book.*

*Look at these questions. Which symbol is missing from each question? Write your answers on page 11 of your answer book.*

Example

39 ⊘ 64

22

106 ○ 55

23

998 ○ 910

24

1 002 ○ 1 002

25

764 ○ 766

26

2 110 ○ 2 109

27

569 ○ 569

28

8 432 ○ 7 649

*2.1a Adds (and subtracts) four digit numbers with regrouping.*

*Look at this question. What is the answer? The answer is 1 866. Write the number 1 866 beside P1 on page 12 of your answer book.*

Example

$$\begin{array}{r} 1\,500 \\ +\ 366 \\ \hline 1\,866 \end{array}$$

*Answer these questions. Write your answers on page 12 of your answer book.*

29

$$\begin{array}{r} 3\,435 \\ +\ 1\,284 \\ \hline \end{array}$$

30

$$\begin{array}{r} 1\,665 \\ +\ 9\,254 \\ \hline \end{array}$$

31

$$\begin{array}{r} 5\,682 \\ +\ 6\,359 \\ \hline \end{array}$$

32

$$\begin{array}{r} 9\,990 \\ +\ 8\,613 \\ \hline \end{array}$$

33

$$\begin{array}{r} 23 \\ 46 \\ 39 \\ +\ 44 \\ \hline \end{array}$$

34

$$\begin{array}{r} 86 \\ 97 \\ 32 \\ +\ 56 \\ \hline \end{array}$$

35

$$\begin{array}{r} 145 \\ 382 \\ +\ 215 \\ \hline \end{array}$$

*2.1b (Adds and) subtracts four digit numbers with regrouping.*

*Look at this question. What is the answer? The answer is 1 189. Write the number 1 189 beside P2 on page 12 of your answer book.*

Example

$$\begin{array}{r} 2\,387 \\ -\ 1\,198 \\ \hline 1\,189 \end{array}$$

*Answer these questions. Write your answers on page 12 of your answer book.*

36

$$\begin{array}{r} 2\,562 \\ -\ 373 \\ \hline \end{array}$$

37

$$\begin{array}{r} 4\,896 \\ -\ 988 \\ \hline \end{array}$$

38

$$\begin{array}{r} 8\,105 \\ -\ 192 \\ \hline \end{array}$$

39

$$\begin{array}{r} 3\,200 \\ -\,1\,245 \\ \hline \end{array}$$

40

$$\begin{array}{r} 9\,000 \\ -\,8\,600 \\ \hline \end{array}$$

41

$$\begin{array}{r} 8\,709 \\ -\,3\,528 \\ \hline \end{array}$$

42

$$\begin{array}{r} 5\,003 \\ -\,2\,985 \\ \hline \end{array}$$

*Look at this question. What is the answer? The answer is 24. Write the number 24 beside P3 on page 12 of your answer book.*

Example

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

*Answer these questions. Write your answers on page 12 of your answer book.*

43

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

44

$$\begin{array}{r} 11 \\ \times 8 \\ \hline \end{array}$$

45

$$\begin{array}{r} 7 \\ \times 12 \\ \hline \end{array}$$

46

$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

47

$$\begin{array}{r} 7 \\ \times 10 \\ \hline \end{array}$$

48

$$\begin{array}{r} 11 \\ \times 11 \\ \hline \end{array}$$

49

$$\begin{array}{r} 12 \\ \times 12 \\ \hline \end{array}$$

*2.2b Multiplies by multiples of (10, 100, and) 1000.*

*Look at this question. What is the answer? The answer is 15 000. Write the number 15 000 beside P4 on page 12 of your answer book.*

*Answer these questions. Write your answers on page 12 of your answer book.*

Example

$$\begin{array}{r} 5\,000 \\ \times\ 3 \\ \hline 15\,000 \end{array}$$

50 $7\,000 \times 9$

51 $16 \times 1\,000$

52 $9 \times 2\,000$

53

$15 \times 4\,000$

54

$37 \times 8\,000$

55

$12 \times 5\,000$

56

$23 \times 6\,000$

## 2.2c *Multiplies with regrouping, up to a 4 digit factor by a 2 digit factor.*

*Look at this question. What is the answer? The answer is 765. Write the number 765 beside P1 on page 13 of your answer book.*

*Answer these questions. Write your answers on page 13 of your answer book.*

Example

$$\begin{array}{r} 255 \\ \times\ 3 \\ \hline 765 \end{array}$$

57

$$\begin{array}{r} 363 \\ \times\ 4 \\ \hline \\ \hline \end{array}$$

58

$$\begin{array}{r} 7245 \\ \times\ 8 \\ \hline \\ \hline \end{array}$$

59

$$\begin{array}{r} 6874 \\ \times\ 25 \\ \hline \\ \hline \end{array}$$

60

$$\begin{array}{r} 6\,787 \\ \times \quad 14 \\ \hline \\ \hline \end{array}$$

61

$$\begin{array}{r} 9\,839 \\ \times \quad 20 \\ \hline \\ \hline \end{array}$$

62

$$\begin{array}{r} 1\,253 \\ \times \quad 65 \\ \hline \\ \hline \end{array}$$

63

$$\begin{array}{r} 2\,286 \\ \times \quad 26 \\ \hline \\ \hline \end{array}$$

*Look at this question. What is the answer? The answer is 6. Write the number 6 beside P2 on page 13 of your answer book.*

*Answer these questions. Write your answers on page 13 of your answer book.*

Example

$12 \div 2 = \underline{6}$

64 $16 \div 4 = _____$

65 $27 \div 9 = _____$

66 $35 \div 7 = _____$

67

$54 \div 6 = _____$

68

$144 \div 12 = _____$

69

$63 \div 7 = _____$

70

$121 \div 11 = _____$

*2.3b Divides, with remainder, up to a 3 digit dividend by a 1 digit divisor.*

*Look at this question. What is the answer? The answer is 340 remainder 1. Write the answer "340 remainder 1" beside P3 on page 13 of your answer book.*

*Answer these questions. Write your answers on page 13 of your answer book.*

Example

$$2\overline{)681} \quad 340\ r1$$

71

$$3\overline{)214}$$

72

$$5\overline{)258}$$

73

$$9\overline{)320}$$

74

$7\overline{)489}$

75

$6\overline{)432}$

76

$5\overline{)386}$

77

$8\overline{)420}$

*Look at this question. What is the answer? The answer is 5. Write the number 5 beside P4 on page 13 of your answer book.*

*Answer these questions. Write your answers on page 13 of your answer book.*

Example

$$10 \overline{)\,50} \quad 5$$

78

$$10 \overline{)\,120}$$

79

$$10 \overline{)\,230}$$

80

$$10 \overline{)\,780}$$

81

$10\overline{)640}$

82

$10\overline{)3\,420}$

83

$10\overline{)5\,640}$

84

$10\overline{)8\,380}$

95

M = _____

*Look at these numbers. Write the Roman numeral which stands for each of these numbers on page 14 of your answer book.*

96

52 = _____

97

150 = _____

98

505 = _____

*3.3 Reads, writes and translates Roman numerals I, V, X, L, C, D, M.*

*Look at this Roman numeral. What number does the Roman numeral X stand for? It stands for 10. Write the number 10 beside P2 on page 14 of your answer book.*

*Look at these Roman numerals. Write the number which stands for each of these Roman numerals on page 14 of your answer book.*

Example

X = 10

92

L = _____

93

C = _____

94

D = _____

88

692 768

Rounded off to the nearest hundred is _____.

89

720 536

Rounded off to the nearest thousand is _____.

90

273 008

Rounded off to the nearest ten thousand is _____.

91

897 331

Rounded off to the nearest ten thousand is _____.

*3.1 Rounds off to any of five digits in a 6 digit number.*

*Look at this question. What is the answer? The answer is 158 280. Write the number 158 280 beside P1 on page 14 of your answer book.*

*Answer these questions. Write your answers on page 14 of your answer book.*

Example

158 283

Rounded off to the nearest 10 is 158 280.

85

346 217

Rounded off to the nearest ten is _____.

86

868 334

Rounded off to the nearest hundred is _____.

87

419 253

Rounded off to the nearest ten is _____.

4.5 *Applies distributive property to multiplication.*

*Look at this expression.*
*Which number is missing?*
*The number 2 is.*
*Write the number 2 beside P3 on page 14 of your answer book.*

*Look at these questions.*
*Which number is missing from each question?*
*Write your answers on page 14 of your answer book.*

Example

$2 \times 32 = (2 \times 30) + (2 \times \underline{2})$

99

$3 \times 29 = (3 \times 20) + (3 \times ____)$

100

$4 \times 53 = (4 \times ____) \div (4 \times 3)$

101

$2 \times 76 = (2 \times ____) + (2 \times 26)$

102

$$4 \times 85 = (4 \times 80) + (4 \times ____)$$

103

$$8 \times 17 = (8 \times 9) + (8 \times ____)$$

104

$$5 \times 12 = (5 \times ____) + (5 \times 2)$$

105

$$3 \times 98 = (3 \times ____) + (3 \times 8)$$

*Look at this problem.*
*What is the answer?*
*The answer is $1.00.*
*Write $1.00 beside P4 on page 14 of your answer book.*

*Answer these questions. Write your answers on page 14 of your answer book.*

Example

Apple costs $0.45
Pear costs $0.55
Total $1.00

106

| | |
|---|---|
| Book costs | $1.29 |
| Pen costs | $0.75 |
| Pencil costs | $0.88 |
| Total | _____ |

107

Jane has $10.00
She spends $4.36
She has _____ left.

108

| | |
|---|---|
| Pants cost | $16.98 |
| Shirts cost | $12.75 |
| Shoes cost | $18.89 |
| Total | _____ |

109

Jerry has $24.96
He spends $17.59
He has _____ left.

110

One candy bar costs $0.35
Six cost _____.

111

One cake costs $2.98
Three cost _____.

112

One poster costs $3.49
Seven cost _____.

*6.2 Reads and writes decimals to hundredths.*

***Look at these words. What is the decimal number that goes with the words?***
***The answer is 0.2***
***Write the answer 0.2 beside P1 on page 15 of your answer book.***

***Look at these words. Write the decimal number that goes with each question. Write your answers on page 15 of your answer book.***

Example

2 tenths

0.2

113

8 tenths

114

7 tenths and 5 hundredths

115

9 tenths and 6 hundredths

116

6 tenths and 3 hundredths

117

0 tenths and 7 hundredths

118

2 tenths and 1 hundredth

119

3 tenths and 4 hundredths

*6.3a Adds (and subtracts) decimals to hundredths with regrouping.*

*Look at this question. What is the answer?*
*The answer is 1.10*
*Write 1.10 beside P2 on page 15 of your answer book.*

*Answer these questions. Write your answers on page 15 on your answer book.*

Example

$$\begin{array}{r} 0.23 \\ +\,0.87 \\ \hline 1.10 \end{array}$$

120

$$\begin{array}{r} 0.76 \\ +\,0.25 \\ \hline \\ \hline \end{array}$$

121

$$\begin{array}{r} 1.67 \\ +\,0.19 \\ \hline \\ \hline \end{array}$$

122

$$\begin{array}{r} 0.48 \\ +\,2.73 \\ \hline \\ \hline \end{array}$$

123

$$\begin{array}{r} 0.57 \\ +\,0.41 \\ \hline \\ \hline \end{array}$$

124

$$\begin{array}{r} 0.89 \\ +\,1.43 \\ \hline \\ \hline \end{array}$$

125

$$\begin{array}{r} 0.47 \\ +\,0.26 \\ \hline \\ \hline \end{array}$$

126

$$\begin{array}{r} 0.14 \\ +\,0.88 \\ \hline \\ \hline \end{array}$$

*6.3b (Adds and) subtracts decimals to hundredths with regrouping.*

*Look at this question.*
*What is the answer?*
*The answer is 0.57*
*Write 0.57 beside P3 on page 15 of your answer book.*

*Answer these questions.*
*Write your answer on page 15 of your answer book.*

Example

$$\begin{array}{r} 0.95 \\ -\ 0.38 \\ \hline 0.57 \end{array}$$

127

$$\begin{array}{r} 0.34 \\ -\ 0.09 \\ \hline \\ \hline \end{array}$$

128

$$\begin{array}{r} 1.93 \\ -\ 0.45 \\ \hline \\ \hline \end{array}$$

129

$$\begin{array}{r} 0.62 \\ -\ 0.37 \\ \hline \\ \hline \end{array}$$

130

$$\begin{array}{r} 2.25 \\ -\ 0.16 \\ \hline \\ \hline \end{array}$$

131

$$\begin{array}{r} 1.92 \\ -\ 0.98 \\ \hline \\ \hline \end{array}$$

132

$$\begin{array}{r} 0.86 \\ -\ 0.57 \\ \hline \\ \hline \end{array}$$

133

$$\begin{array}{r} 2.71 \\ -\ 0.83 \\ \hline \\ \hline \end{array}$$

*6.4 Multiplies decimals to hundredths by single digit whole numbers with regrouping.*

*Look at this question.*
*What is the answer?*
*The answer is 6.40*
*Write the decimal 6.40 beside P4 on page 15 of your answer book.*

*Answer these questions.*
*Write your answers on page 15 of your answer book.*

Example

$$\begin{array}{r} 1.28 \\ \times\ 5 \\ \hline 6.40 \end{array}$$

134

$$\begin{array}{r} 2.17 \\ \times\ 6 \\ \hline \\ \hline \end{array}$$

135

$$\begin{array}{r} 3.49 \\ \times\ 9 \\ \hline \\ \hline \end{array}$$

136

$$\begin{array}{r} 6.82 \\ \times\ 7 \\ \hline \\ \hline \end{array}$$

137

$$\begin{array}{r} 7.98 \\ \times\ 8 \\ \hline \\ \hline \end{array}$$

138

$$\begin{array}{r} 6.24 \\ \times\ 9 \\ \hline \\ \hline \end{array}$$

139

$$\begin{array}{r} 9.27 \\ \times\ 9 \\ \hline \\ \hline \end{array}$$

140

$$\begin{array}{r} 8.35 \\ \times\ 6 \\ \hline \\ \hline \end{array}$$

*7.1 Relates 1/10's and 1/100's to decimals.*

***Look at these questions. Write the decimal as a fraction and the fraction as a decimal. What are the answers? The answers are 1/100 and 0.01 Write the answers 1/100 and 0.01 beside P1 on page 16 of your answer book.***

***Look at these decimals. Write each decimal as a fraction. Write your answers on page 16 of your answer book.***

Example

$0.01 = \frac{1}{100}$

$\frac{1}{100} = 0.01$

141

$0.95 =$ _____

142

$0.8 =$ _____

143

$0.75 =$ _____

*Look at these fractions. Write each fraction as a decimal. Write your answer on page 16 of your answer book.*

144

$$\frac{69}{100} = ____$$

145

$$\frac{7}{100} = ____$$

146

$$\frac{93}{100} = ____$$

147

$$\frac{5}{10} = ____$$

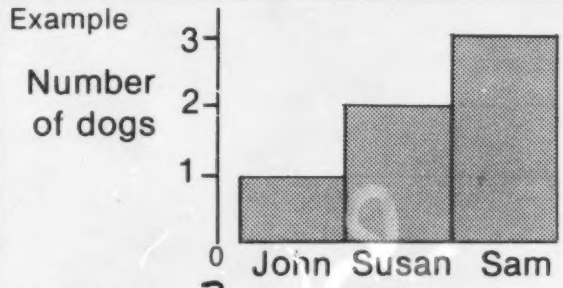
*9.1 Collects data (constructs) and interprets bar graphs, pictographs, and line graphs by using one-to-one scale and one-to-many scale.*

*9.1a Bar graphs.*

***Look at this bar graph. From this graph you can tell how many dogs John, Susan and Sam have. How many dogs does Sam have? He has 3. Write 3 beside P2 on page 16 of your answer book.***

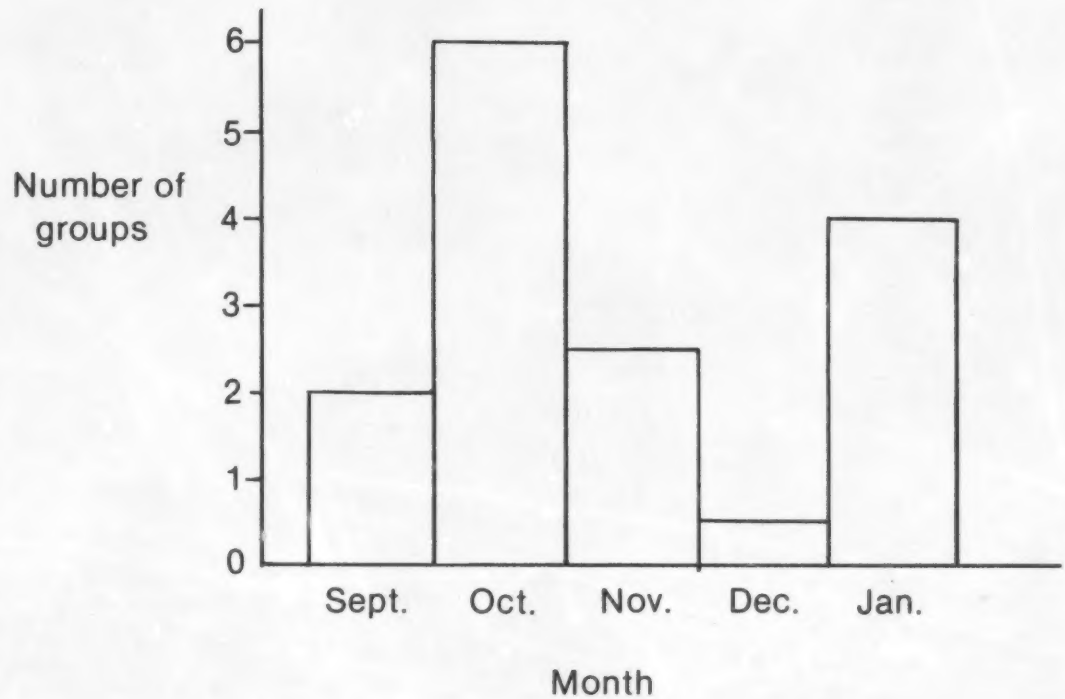
***Use the bar graph below to answer the questions. Write your answers on page 16 of your answer book.***

Example




Sam has 3 dogs.

Bar Graph Showing the Number of Children in the School Having Birthdays in September, October, November, December and January



148. Which month has the fewest birthdays?

149. Which month has the most birthdays?

150. Are there more birthdays in September or November?

151. How many children have birthdays in October?

152. How many children have birthdays in November?

153. In which month are there 20 birthdays?

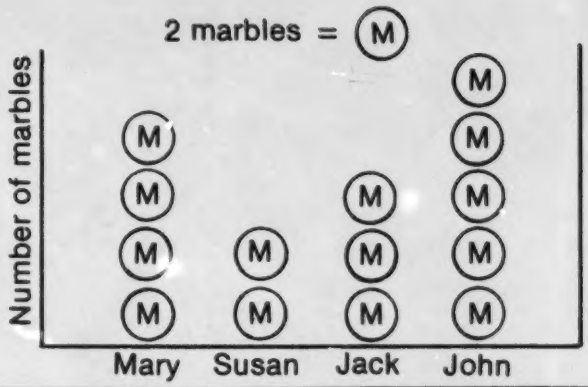
154. In which month do 40 children have birthdays?

*9.1b Constructs pictographs and line graphs.*

***Look at this example of a pictograph.***
***Using the following information, construct a pictograph.***

Mary has 8 marbles, Susan has 4, Jack has 6, and John has 10.

***Draw your pictograph on page 17 of your answer book.***




Construct a pictograph showing the number of books these children read in one year.

| | |
|---|---|
| Mary | 24 |
| Don | 16 |
| Louise | 27 |
| Chris | 20 |
| Emma | 38 |
| Susan | 21 |
| Jim | 19 |

4 Books = ○

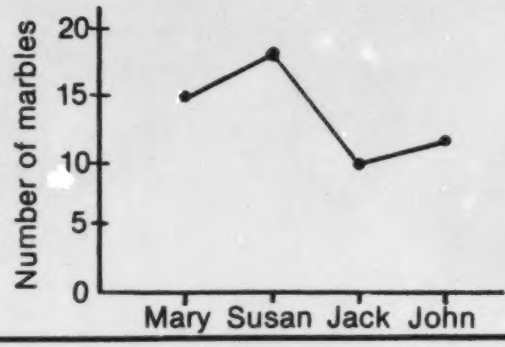
2 Books = D

1 Book = ◁

*Look at this example of a line graph.*
*Note that the scale showing the number of marbles is in intervals of 5.*

*Using the following information construct a line graph. Draw it on page 17 of your answer book.*

Mary has 15 marbles, Susan has 18, Jack has 10 and John has 12.

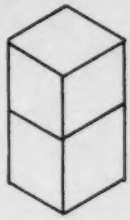



Construct a line graph showing the number of minutes it took these children to walk to school. (Note the scale showing the number of minutes should be in intervals of 5.)

| | |
|---|---|
| Mary | 14 |
| Susan | 21 |
| Peter | 8 |
| John | 4 |
| Linda | 27 |
| Chris | 12 |
| Rebecca | 16 |

*10.3 Estimates and measures using standard (and non-standard units) ($cm^3$).*

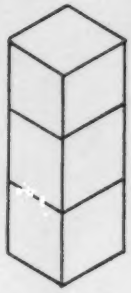
*Look at this solid. Each cube = 1 $cm^3$. What is the volume of this solid? The answer is 2 $cm^3$. Write 2 $cm^3$ beside P1 on page 18 of your answer book.*



= 2cm³

*Look at these solids.*
*Write the volume of each solid on page 18 of your answer book.*

157



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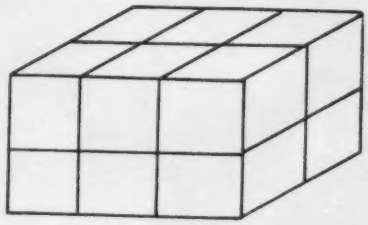
158



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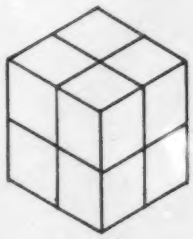
159



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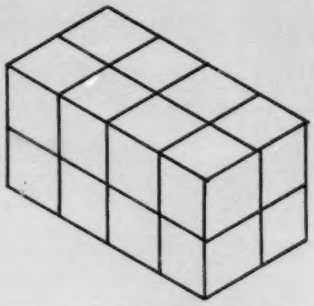
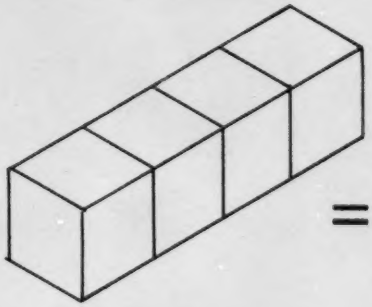
160



= _____

161



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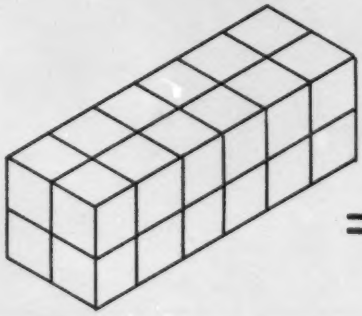
162



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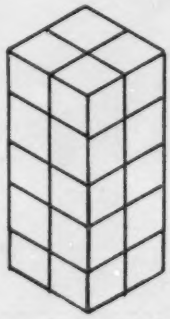
163



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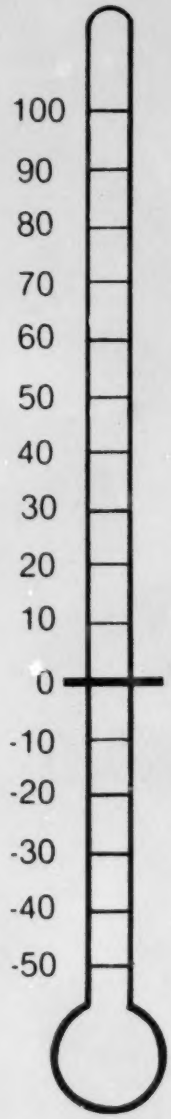
*10.6 Knows the significance of 0°C and 100°C.*

***Write your answers to these questions on page 18 of your answer book.***

164

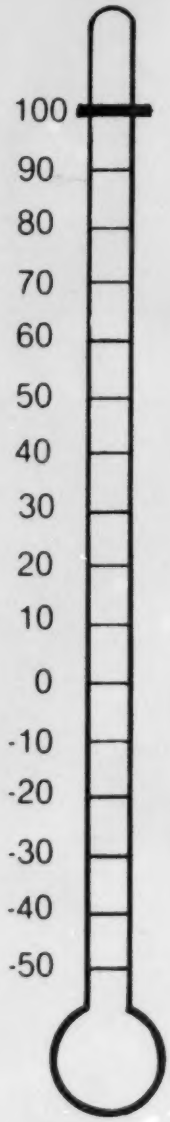



Look at this thermometer.
The temperature marked is called the

_____point. Water will

_____at this temperature.

165




Look at this thermometer.
The temperature marked is called the

_____point. Water will

_____at this temperature.

*10.7 Tells time to the minute.*

*Look at this clock.*
*What time does it show?*
*The time is 2:15*
*Write "2:15" beside P2 on page 18 of your answer book.*

2:15

*Look at the clocks.*
*What time does each show?*
*Write your answers on page 18 of your answer book.*

166

167

168

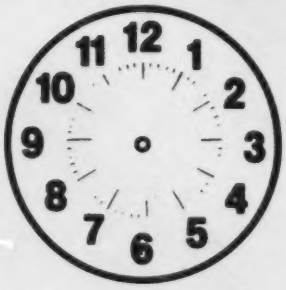
The previous numbered page in the original document was blank

169

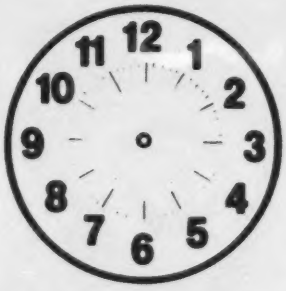
*For these 3 questions you are to draw in the hands of the clock on page 18 of your answer book.*

170 *Make this clock say 6:43*

171 *Make this clock say 1:27*




172 *Make this clock say 3:28*

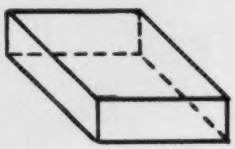


*11.1 Recognizes cube, cone, sphere, cylinder, pyramid, rectangular prism, triangular prism.*

*Draw a line from the figures to their correct names. Look at the example to see how this is done. Now you draw in the correct lines in P1 on page 19 of your answer book.*

*Write your answers to these questions on page 19 of your answer books.*

173

174 

175

176

177

triangle

cylinder

rectangle

pyramid

sphere

circle

rectangular prism

cone

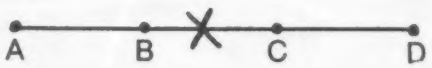
square

*11.2a Locates, without definition, angles, parallel lines, line segments, right angles.*

*Look at this line segment. Which part of the line is segment BC? Put an X on segment BC in question P2 on page 19 of your answer book.*

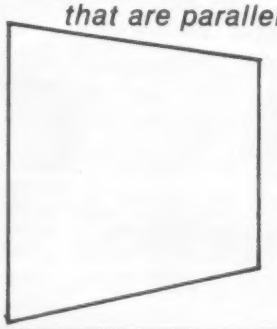
*Look at these questions. Mark your answers on page 19 and 20 of your answer book.*

Put an X on the line segment BC.

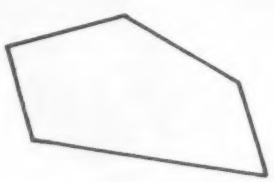



178 *Put an X on the lines that are parallel in this figure.*

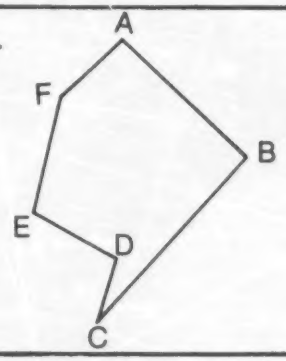
179 *Put an X on the lines that are parallel in this figure.*



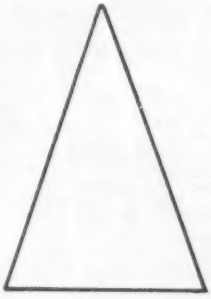
180 *Number the line segments in this figure.*



181 *Mark the line segment EF in this figure.*

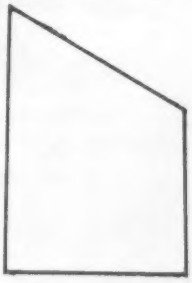



182 *Circle the angles in the figure.*



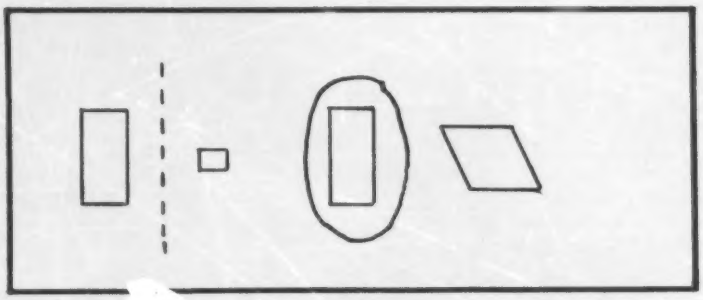
183 *Circle the angles in the figure.*

184 *Put an X on the lines that are parallel in this figure.*



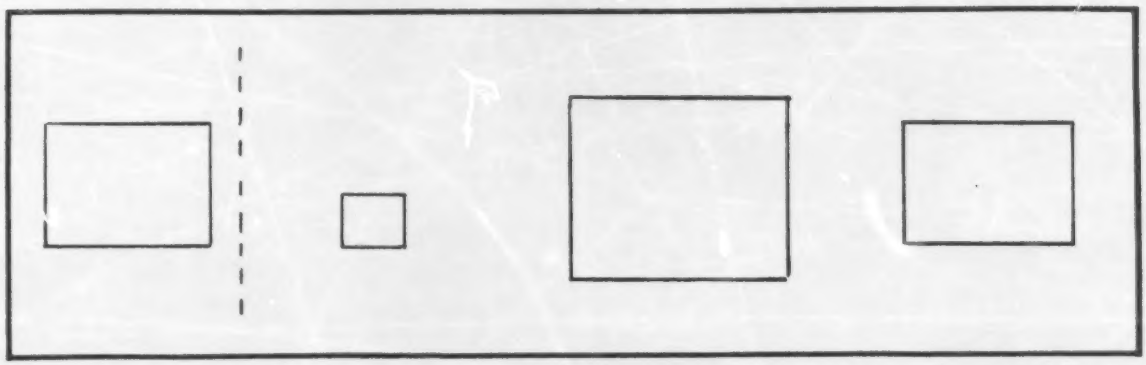
*11.2b Recognizes congruent plane shapes.*

*Instructions: Look at these figures. Which figure on the right of the dotted line is congruent with the one on the left? The answer has been circled. Circle the answer beside P1 on page 20 of your answer book.*

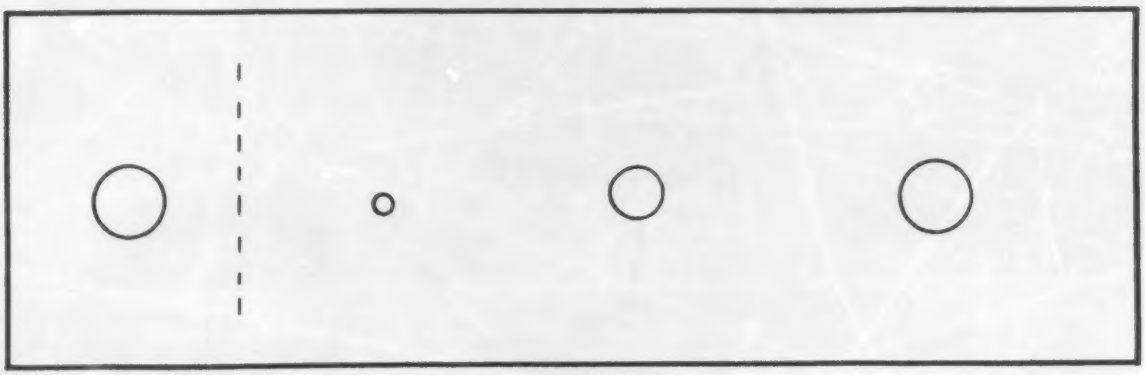


*Look at these questions. Circle the congruent figures in each question on page 20 of your answer book.*

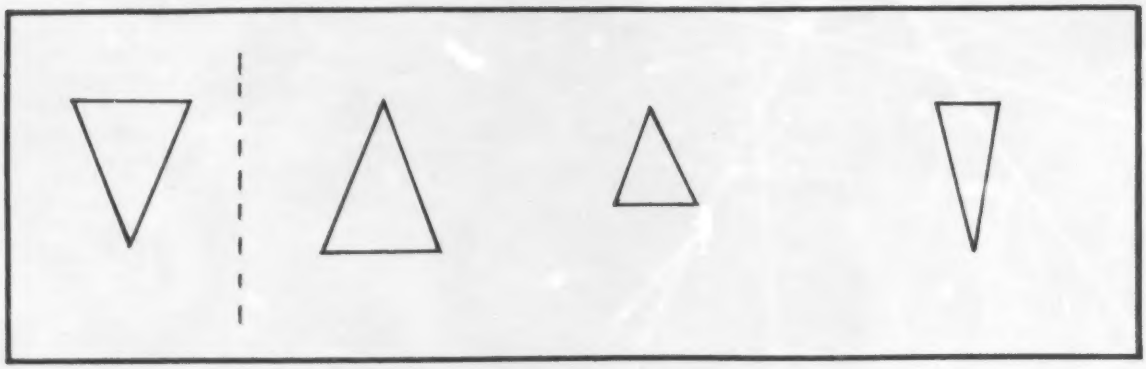
185



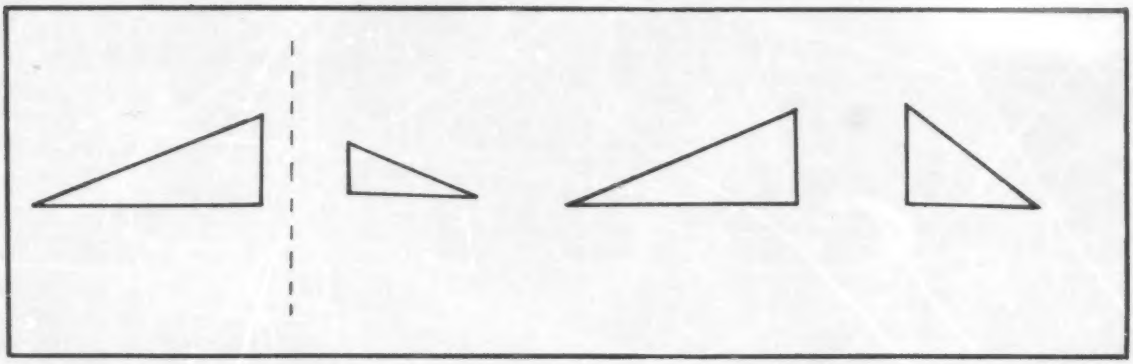
186



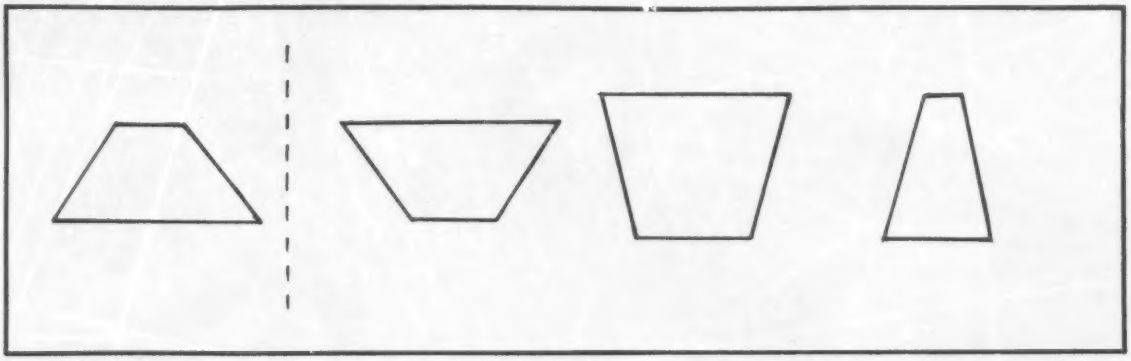
187



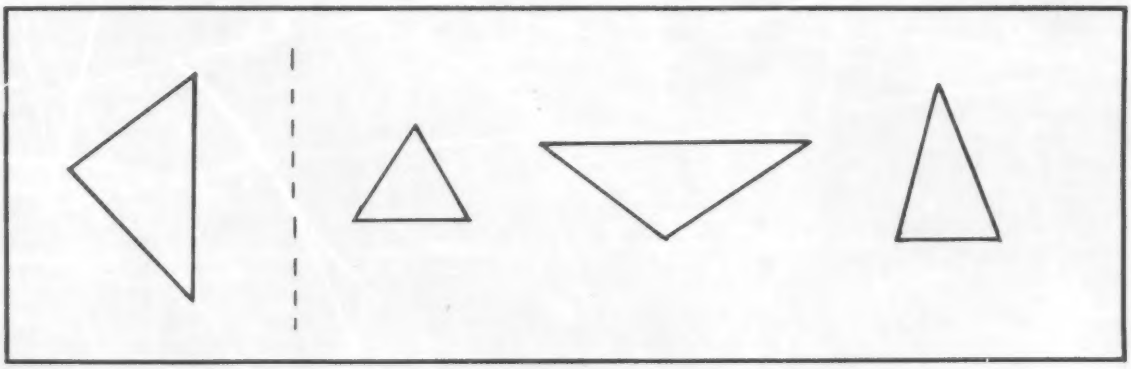
188



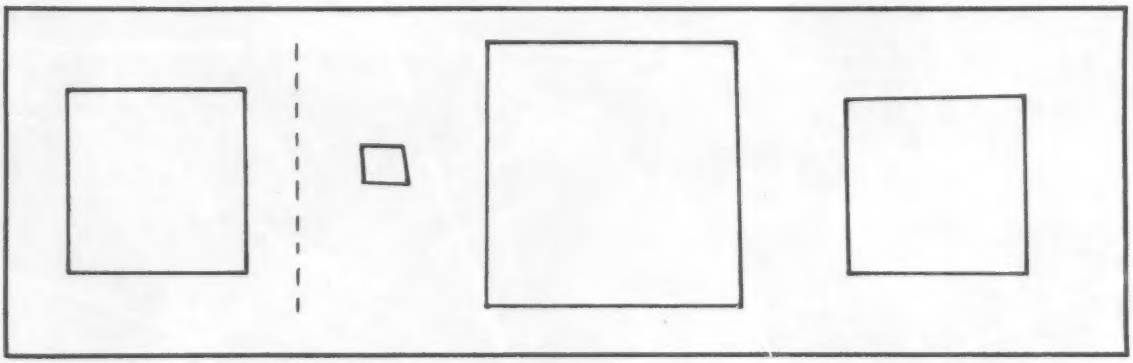
189



190



191





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